

FIG. 1

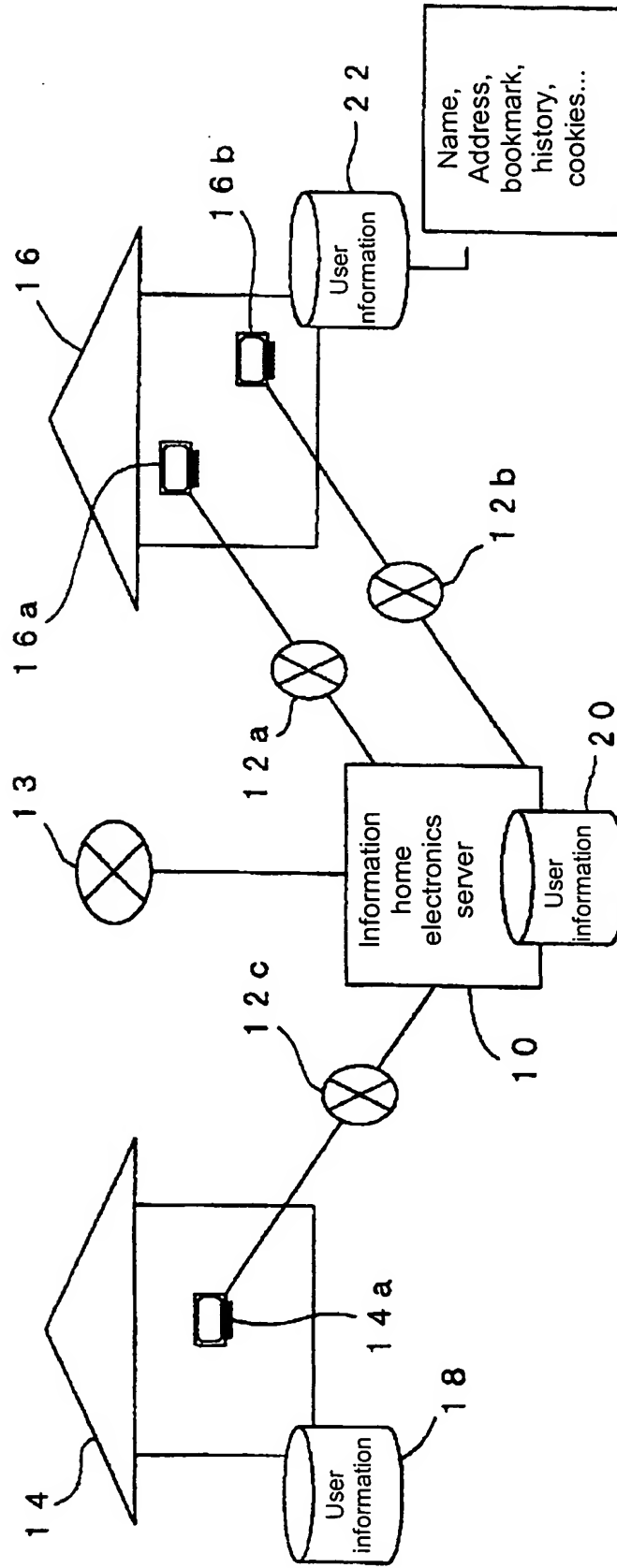


FIG. 2

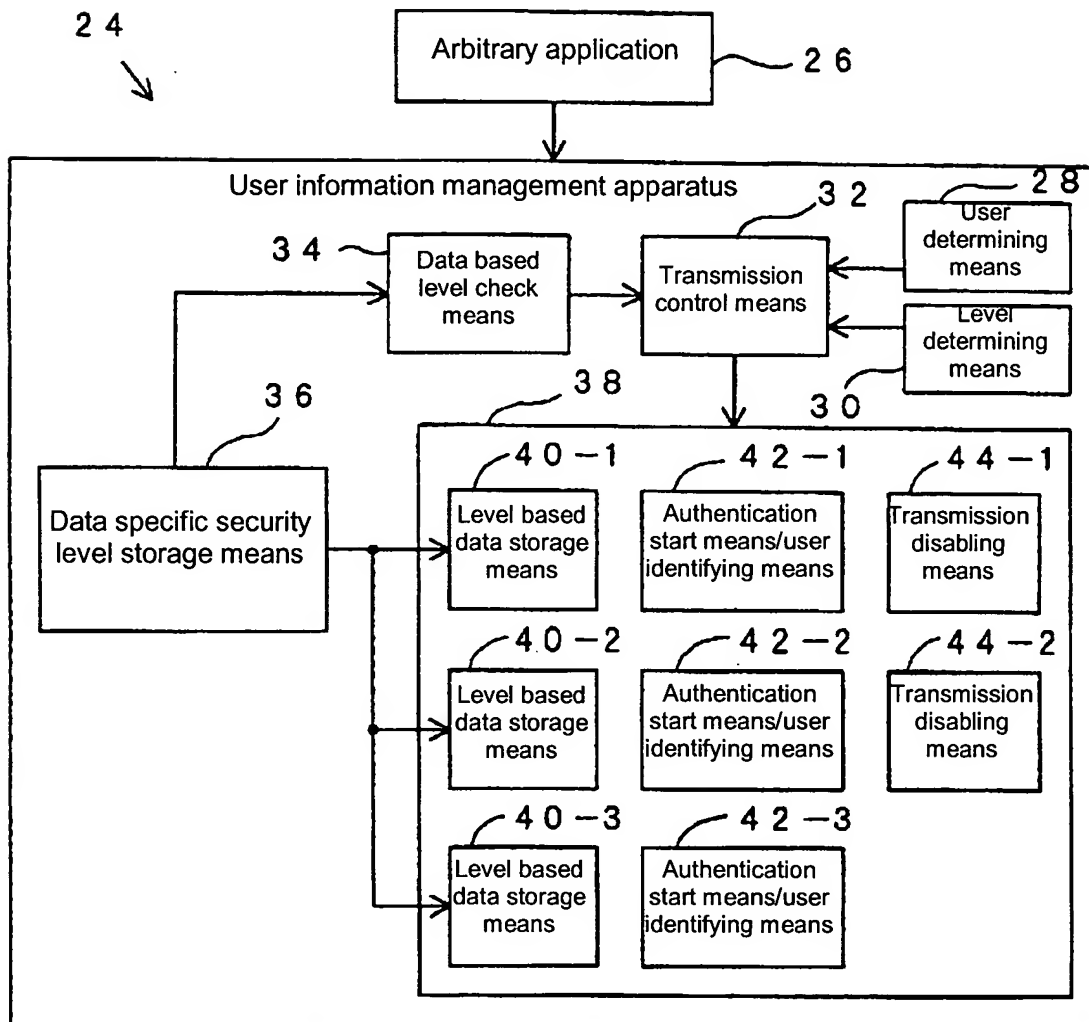


FIG. 3

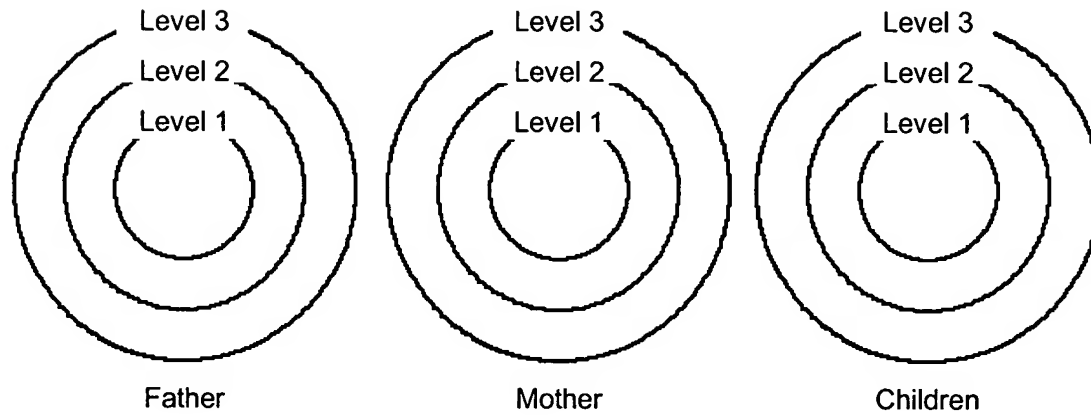


FIG. 4

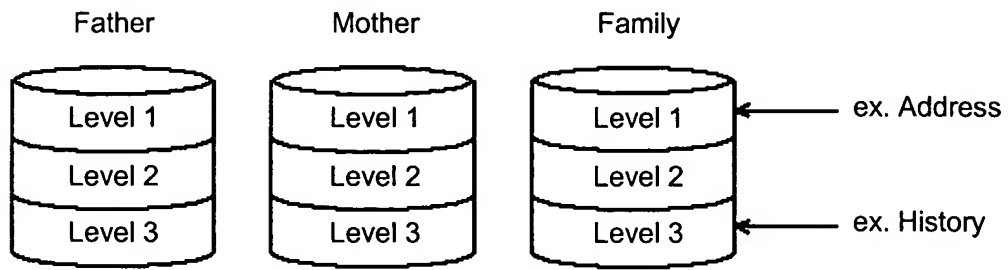


FIG. 5

Data scope when mother has provided access at level 2

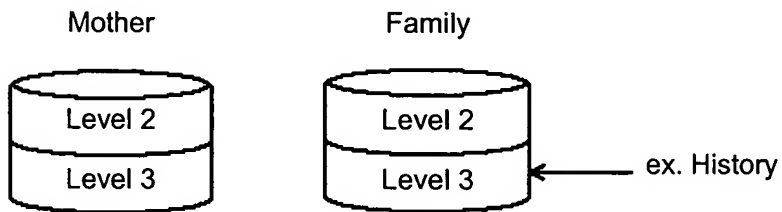


FIG. 6

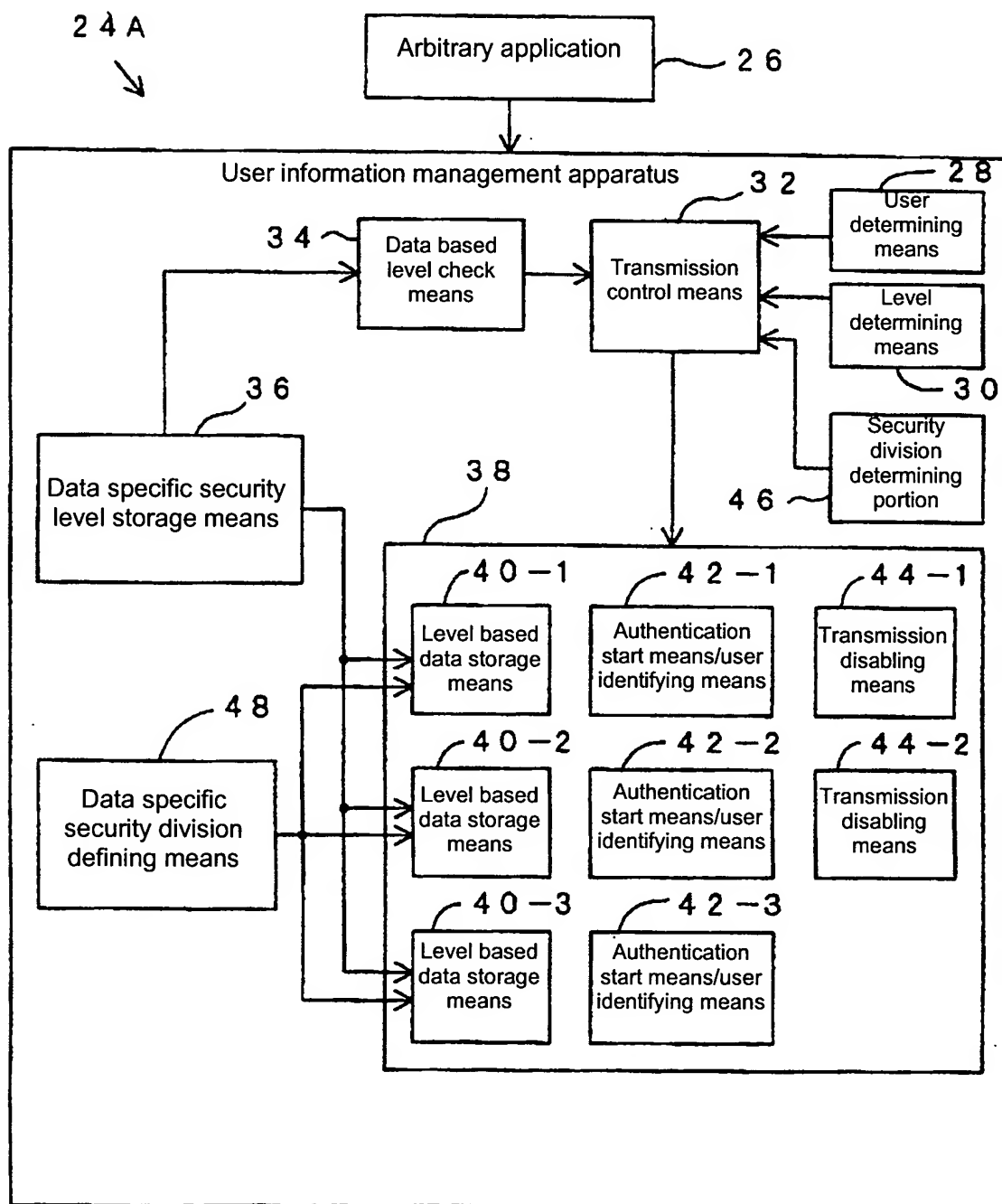


FIG. 7

Data attribute definition

```
<User accessLevel = "2">
  <Name jp-description = "Name">
    <First type = "text" jp-description = "First" probability = "0.00001"/>
    <Last type = "text" jp-description = "Last" probability = "0.00001"/>
  </Name>
  <Bdate jp-description = "Date of birth" probability = "0.00274">
    <Ymd>
      <Year type = "number" jp-description = "Year"/>
      <Month type = "number" jp-description = "Month"/>
      <Day type = "number" jp-description = "Day"/>
    </Ymd>
  </Bdate>
  <Gender type = "gender" jp-description = "Gender" probability = "0.5"/>
</User>
<Dynamic accessLevel = "3">
  <ClickStream/>
    <Client type = "text"/>
    <Server type = "text"/>
  </ClickStream>
</Dynamic>
```

FIG. 8

Person based data

```
<User>
  <Name>
    <First value = "Tanaka"/>
    <Last value = "Kazuko"/>
  </Name>
  <Gender accessLevel = "1" value = "Female"/>
</User>
<Dynamic>
  <ClickStream/>
    <Client type = "http://www.foo.com/bar1.html"/>
    <Client type = "http://www.foo.com/bar2.html"/>
  </ClickStream>
</Dynamic>
```



FIG. 9

Data of which instance of level 1 is generated

```
<User>  
  <Gender accessLevel = "1" value = "Female"/>  
</User>
```

FIG. 10

Data of which instance of level 2 is generated

```
<User accessLevel = "2">  
  <Name>  
    <First value = "Tanaka"/>  
    <Last value = "Kazuko"/>  
  </Name>  
</User>
```

FIG. 11

Data of which instance of level 3 is generated

```
<Dynamic accessLevel = "3">  
  <ClickStream/>  
    <Client type = "http://www.foo.com/bar1.html"/>  
    <Client type = "http://www.foo.com/bar2.html"/>  
  </ClickStream>  
</Dynamic>
```

FIG. 12

Level 1

User ID	Data description	Value
0000001	User.Gender	Female

Level 2

User ID	Data description	Value
0000001	User.Name.First	Tanaka
0000001	User.Name.Last	Hanako
0000002	User.Name.First	Watanabe
0000002	User.Name.Last	Taro
0000002	User.Gender	Male

Level 3

User ID	Data description	Value
0000001	Dynamic.ClickStream.Client	http://www.foo.com/bar1.html
0000001	Dynamic.ClickStream.Client	http://www.foo.com/bar2.html
0000002	Dynamic.ClickStream.Client	http://www.aaa.co.jp/bbb/ccc.html

FIG. 13

Example of EC site shopping

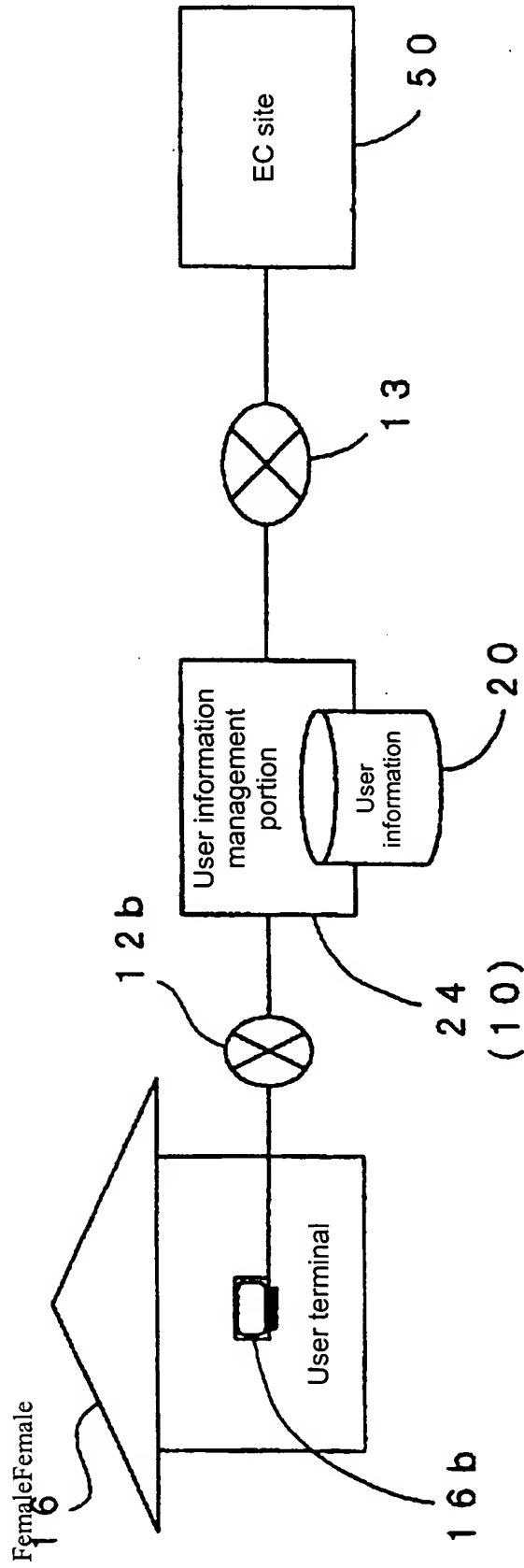
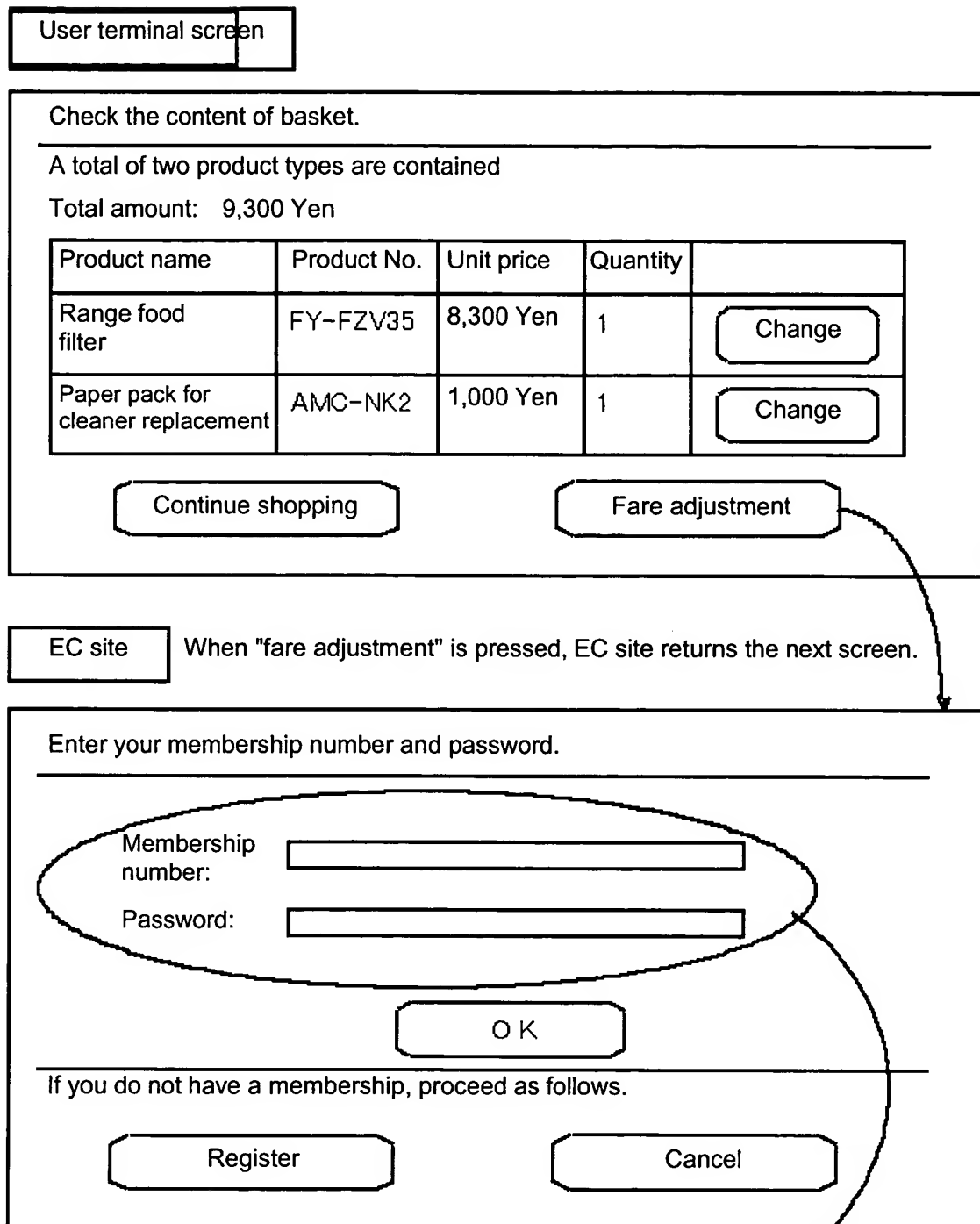


FIG. 14



<INPUT TYPE = "text" NAME = "FooShop.UserID">

<INPUT TYPE = "password" NAME = "FooShop.UserPassword">

These codes are described.

FIG. 15

**IC card authentication is ready.**

**Enter your card.**

FIG. 16

Enter delivery destination information.

---

Name:

Postal code:

Address:

Telephone:

OK Back

<INPUT TYPE = "text" NAME = "User.Name">

<INPUT TYPE = "text" NAME = "User.Postal.Postalcode">

<INPUT TYPE = "text" NAME = "User.Postal.Formatted">

<INPUT TYPE = "text" NAME = "User.Telecome.Telephone">

These codes are described.



FIG. 17

<INPUT TYPE = "text" NAME = "User.Name" value = "Taro Yamada">  
<INPUT TYPE = "text" NAME = "User.Postal.Postalcode" value = "123-0000">  
<INPUT TYPE = "text" NAME = "User.Postal.Formatted" value = "Tokyo...">  
<INPUT TYPE = "text" NAME = "User.Telecome.Telephone" value = "03-1234-5678">

Value is corrected.

Enter delivery destination information.

Name: Taro Yamada

Postal code: 123-0000

Address: Tokyo...

Telephone: 03-1234-5678

OK Back

FIG. 18

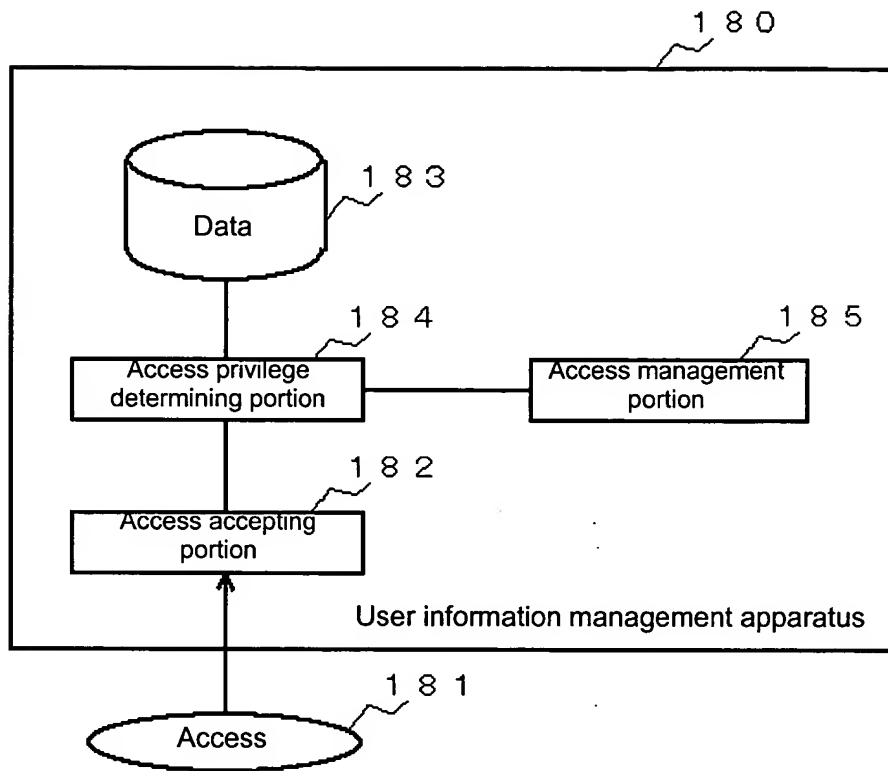


FIG. 19

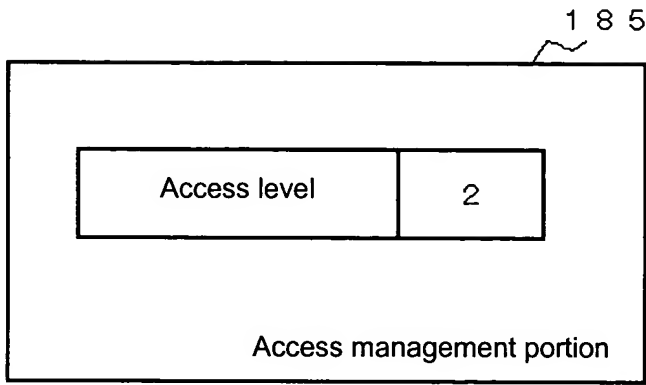


FIG. 20

Data description	Required access level
Data A	1
Data B	2
Data C	3
⋮	⋮

FIG. 21

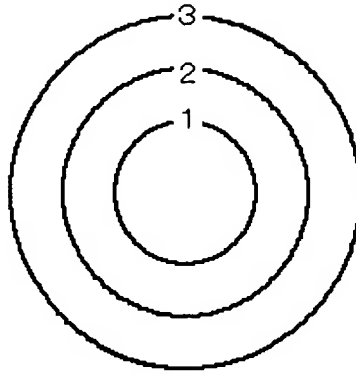


FIG. 22

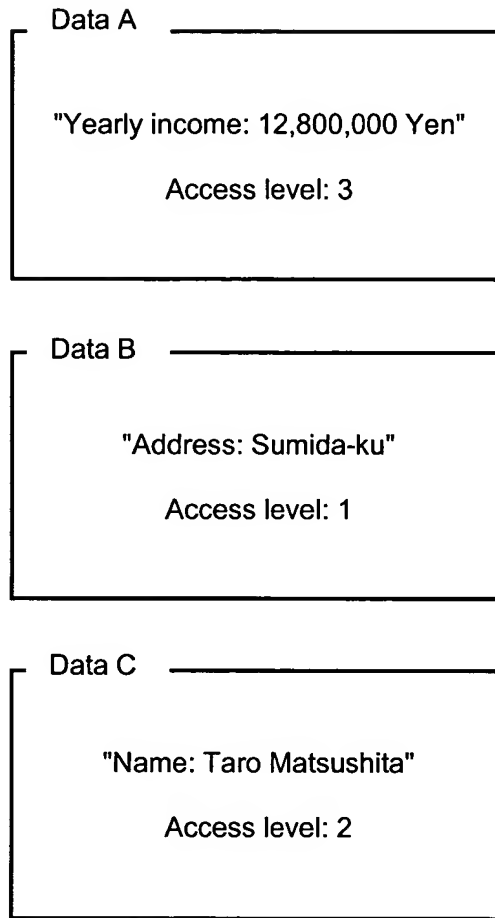


FIG. 23

Data A

Owner:	X
Title:	Credit card number
Content:	1234-5678-9012-3456

Data B

Owner:	Y
Title:	Bank deposit number
Content:	QR0332163770

Data C

Owner:	Z
Title:	Student ID number
Content:	040167B

⋮

FIG. 24

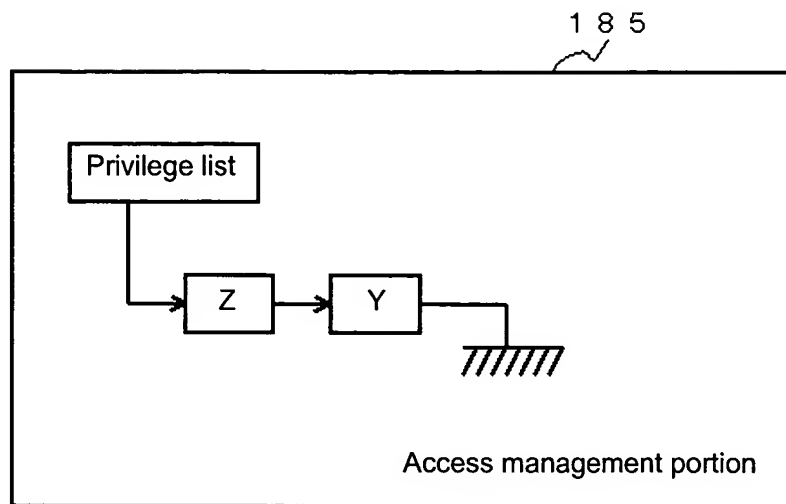




FIG. 25

Access privilege	Data title	Data owner
Z	Credit number	X
Z	Bank deposit number	Y
⋮	⋮	⋮

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FIG. 26

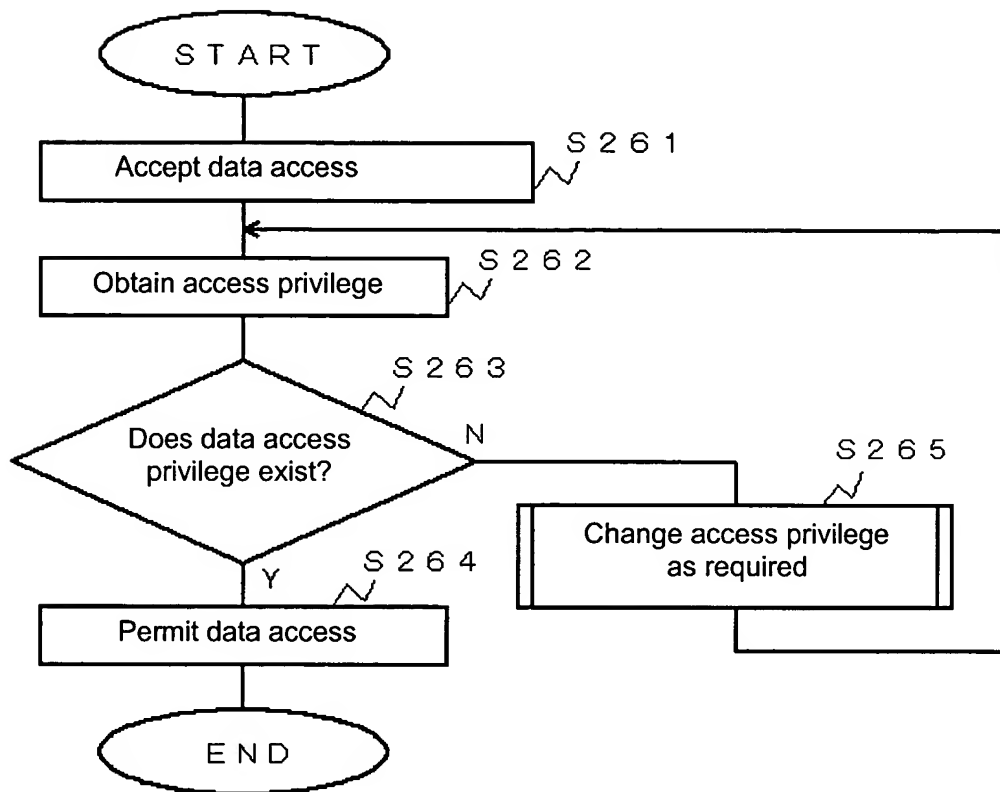
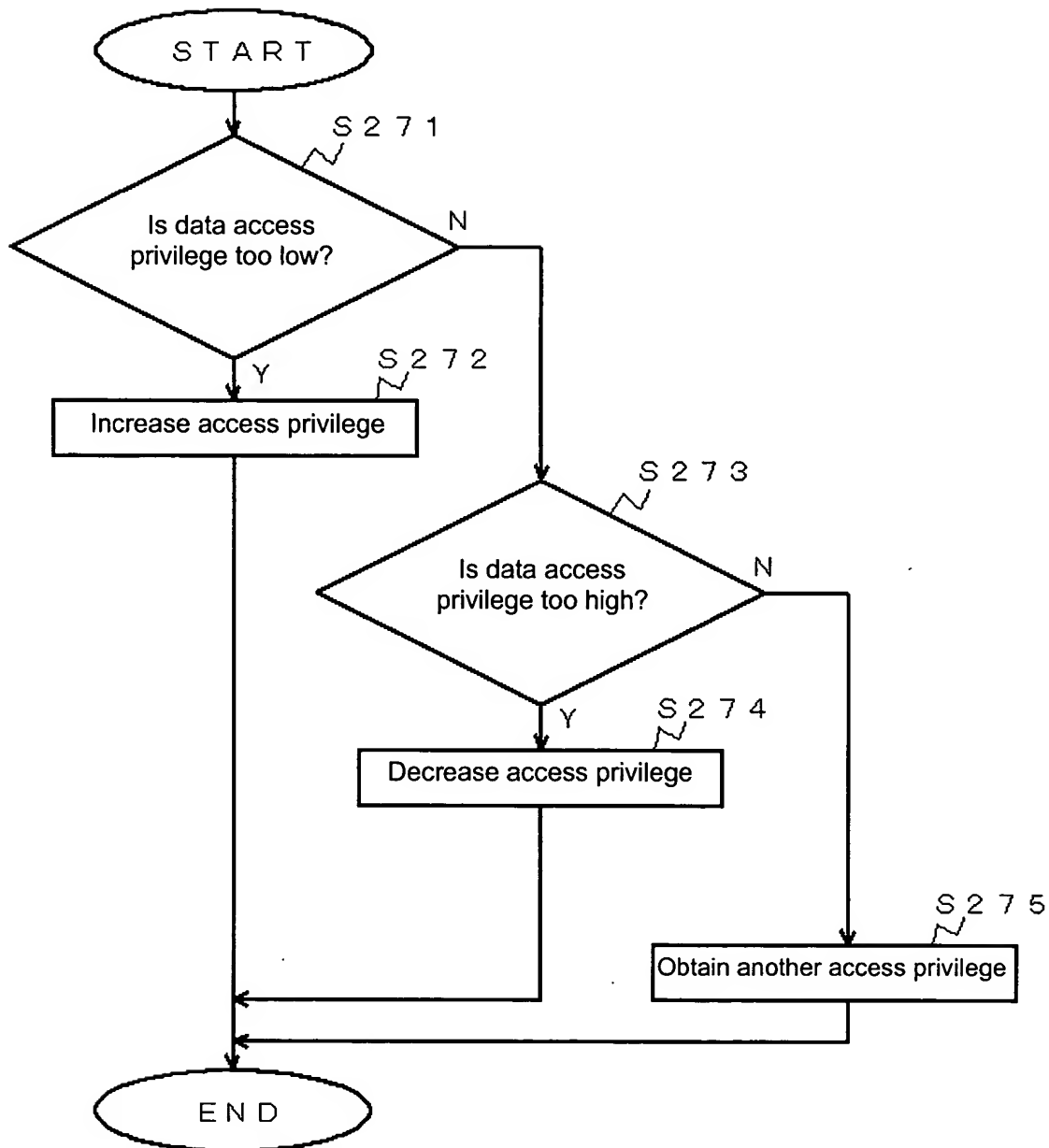
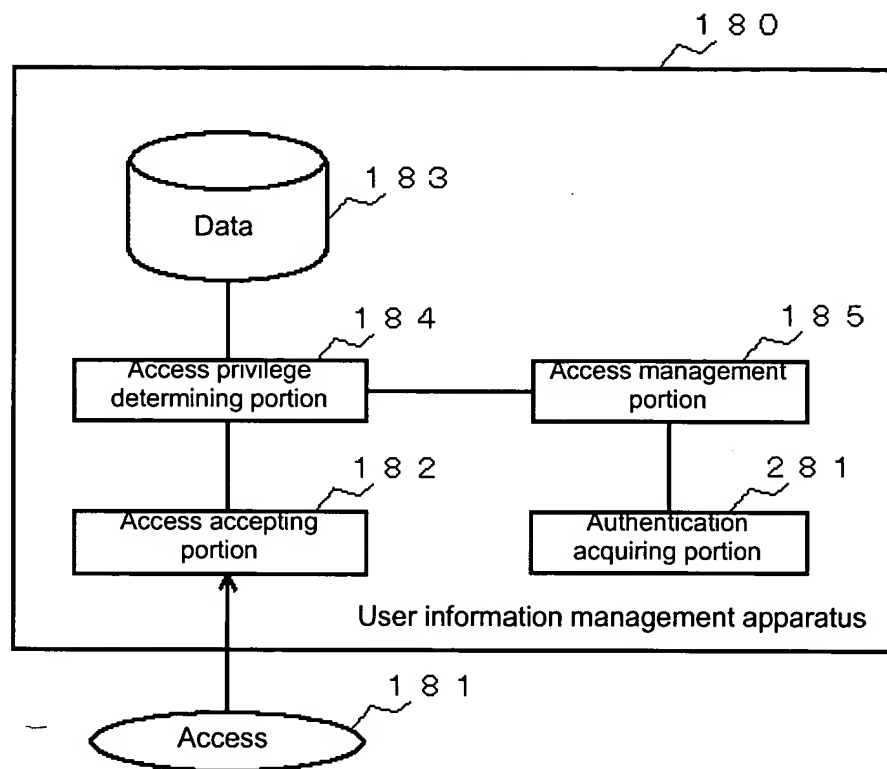


FIG. 27



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FIG. 28



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FIG. 29

A login form with two input fields. The first field is labeled 'User name:' and the second field is labeled 'Password:'. Both fields are represented by empty rectangular boxes.

User name:	<input type="text"/>
Password:	<input type="password"/>

FIG. 30

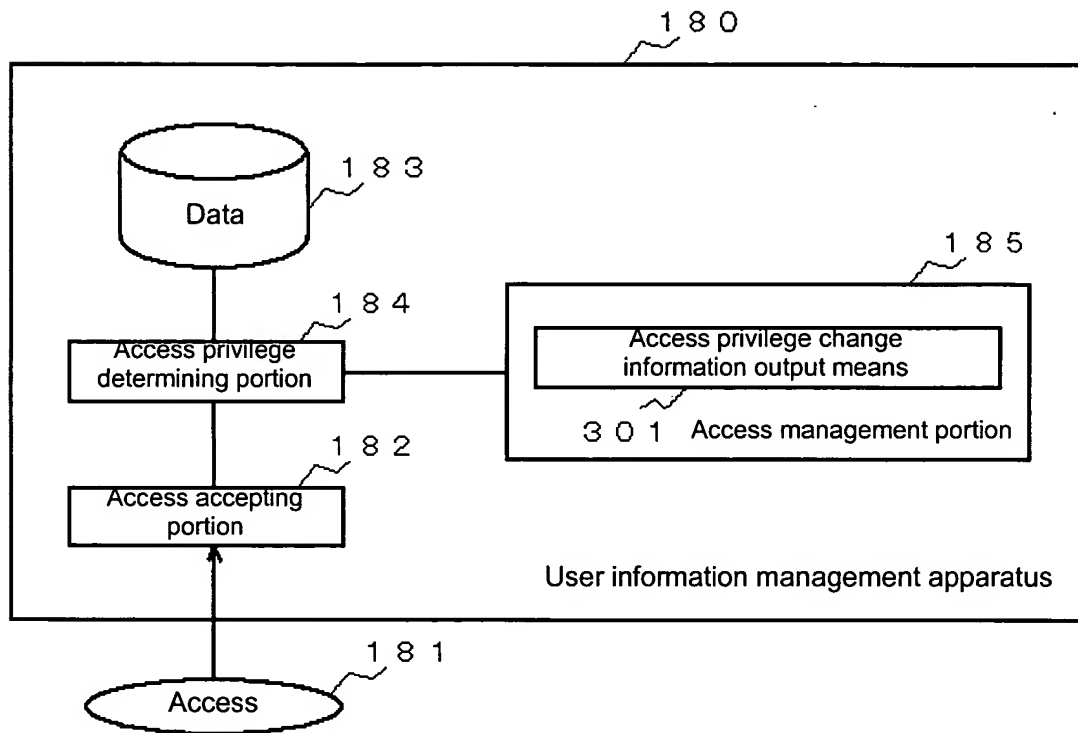


FIG. 31

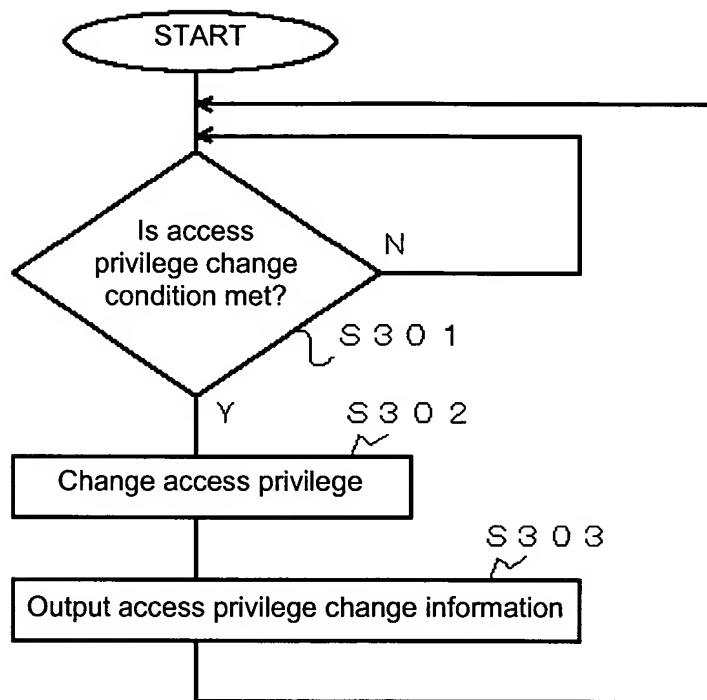


FIG. 32

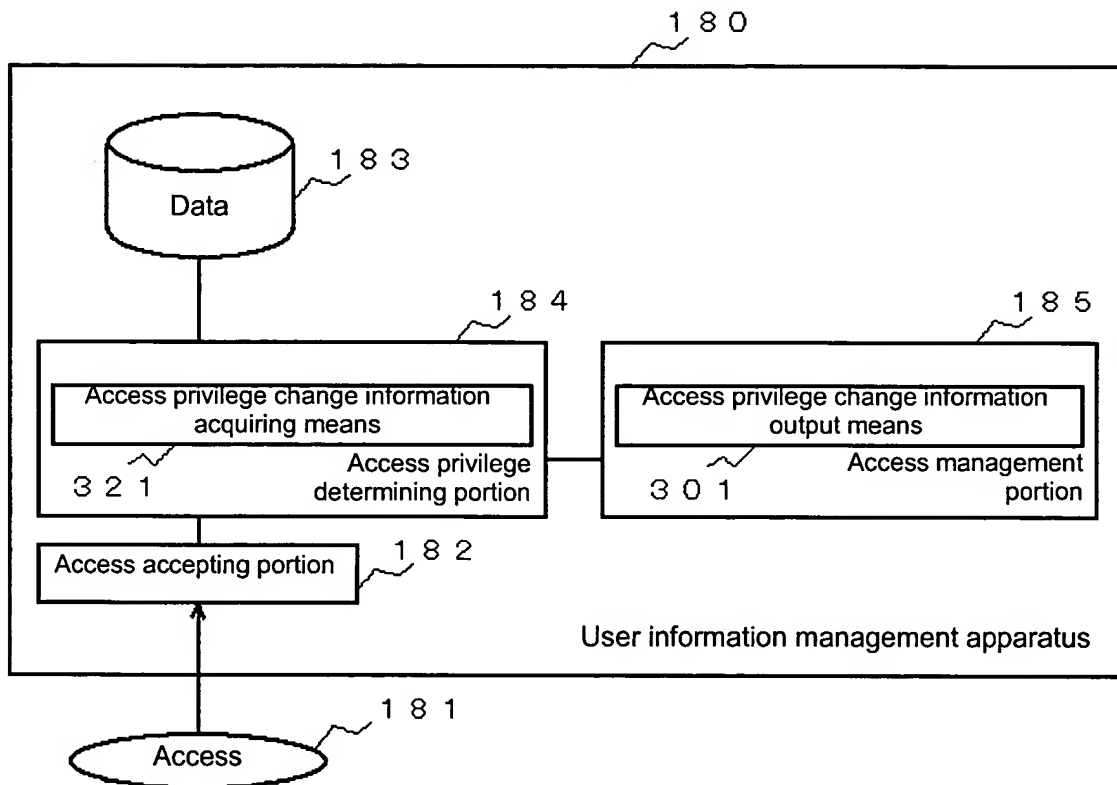
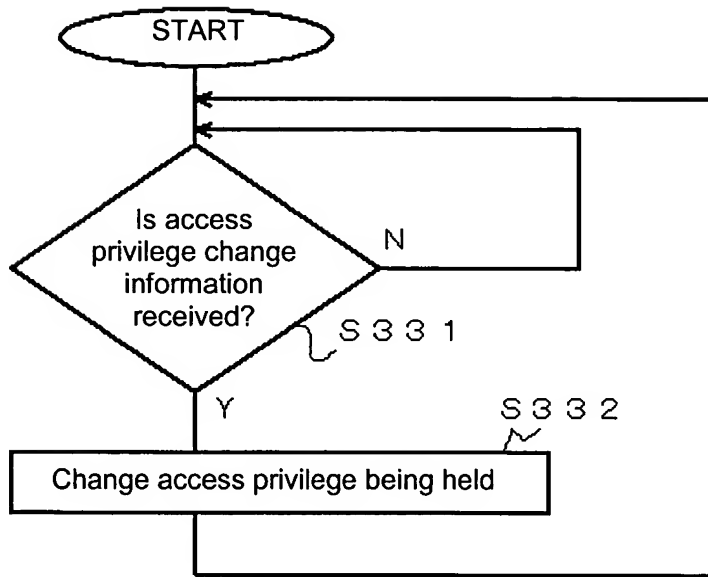




FIG. 33



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FIG. 34

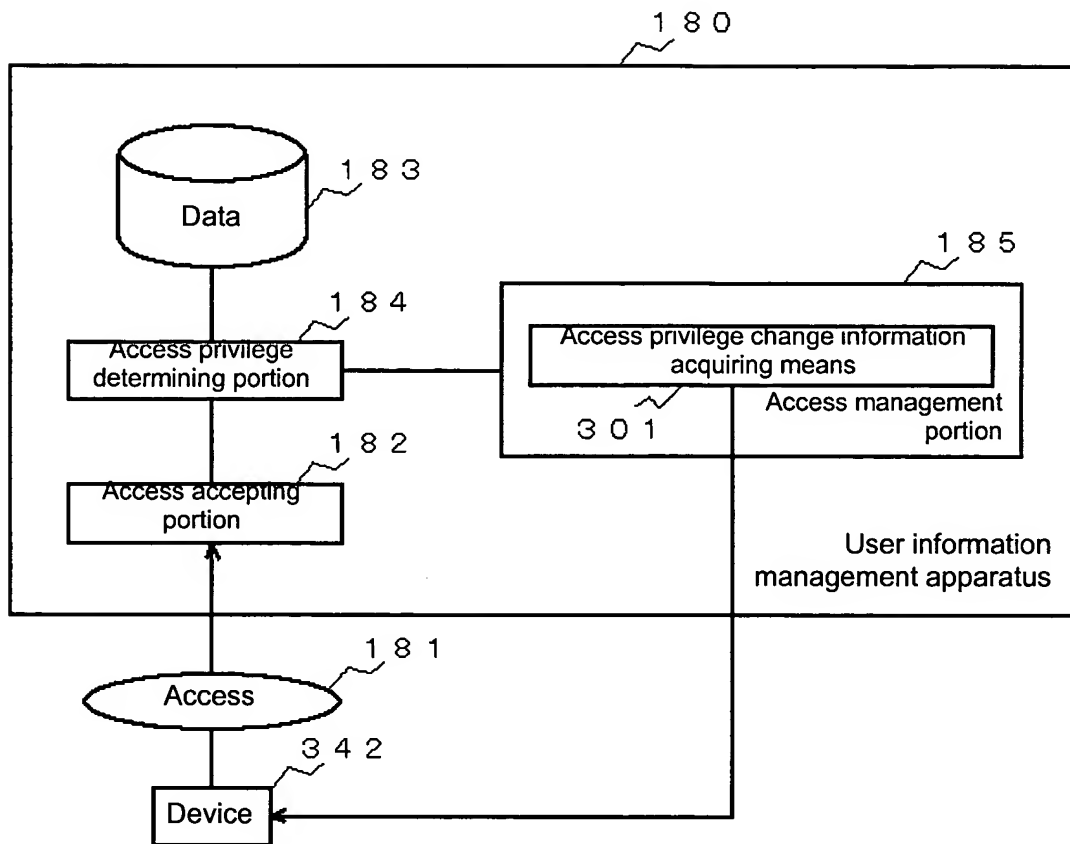


FIG. 35

